

Table V

Test station			Firing area—Firing section
Stabilizer and steering console	Range console	Lateral and program console	
GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST			

THE FOLLOWING TEST REQUIRES THE RANGE AND LATERAL CONSOLE OPERATORS TO PERFORM THE STEPS AS DIRECTED BY THE STABILIZER AND STEERING CONSOLE OPERATOR.

USE DETENTS TO VERIFY ALL COMPUTER SETTINGS

<i>Test 1</i>	<i>Test 1</i>	<i>Test 1</i>	<i>Test 1</i>
2. Turn rudder drive switch on. Vane position meters read zero.	1. Check computer zero. Dial 8 and verify both arming lamps on.  2. Dial 8 and verify both arming lamps off.	1. Check computer zero. Dial 8 and verify arming lamp on.  2. Slew velocity to plus 25M/S. Dial 8 and verify arming lamp off.	
3. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. Vane I meter indicates negative. c. Vane III meter indicates positive. d. Vanes II and IV meters indicate zero.			
4. Turn guidance cutout switch on. a. Guidance signal off lamp on. b. All vane meters indicate zero.	4. Dial 8 and verify both arming lamps off.	4. Slew velocity to minus 25M/S. Dial 8 and verify arming lamp off.	
	5. Dial 8 and verify both arming lamps on.	5. Zero computer. Dial 8 and verify arming lamp on.	
	6. Slew velocity to minus 55M/S. Dial 8 and verify both arming lamps off.		
	7. Slew displacement to minus 200 meters.	7. Slew displacement to plus 250 meters.	
8. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. Vane I meter indicates negative. c. Vane III meter indicates positive. d. Vane II and IV meters indicate zero.			
9. Turn guidance cutout switch on. a. Guidance signal off lamp on. b. All vane meters indicate zero.			

Table V—Continued

Test station			Firing area—Firing section
Stabilizer and steering console	Range console	Lateral and program console	
GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.
<i>Test 2</i>	<i>Test 2</i>	<i>Test 2</i>	<i>Test 2</i> 1. Turn cutoff + 1.5 second switch on.
2. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. All vane meters indicate zero.			
3. Turn guidance cutout switch on. Guidance signal off lamp on.			
<i>Test 3</i>	<i>Test 3</i>	<i>Test 3</i>	<i>Test 3</i> 1. Turn X + 127 and X + 127.5 second switch on.
2. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. All vane meters indicate zero.			
3. Turn guidance cutout switch on. Guidance signal off lamp on.			
<i>Test 4</i> 1. Step dive program counter to 55. Dive program zero lamp off.	<i>Test 4</i> 1. Slew velocity to plus 50M/S and displacement to zero.	<i>Test 4</i> 1. Slew velocity to plus 50M/S and displacement to zero.	<i>Test 4</i>
2. RC Phase lamp on.			2. Turn Q switch on.
3. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. Vane I and IV meters indicate negative. c. Vane II and III meters indicate positive.			3. All air jets operate.
4. Turn guidance cutout switch on. a. Guidance signal off lamp on. b. All vane meters indicate zero.	4. Slew displacement to minus 5500 meters and velocity to zero. Dial 8 and verify arming lamps on.	4. Slew displacement to minus 500 meters and velocity to zero.	

Table V—Continued

Test station			Firing area—Firing section
Stabilizer and steering console	Range console	Lateral and program console	
GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.	GUIDANCE FLIGHT PHASE AND WARHEAD ARMING TEST—Con.
5. Turn guidance cutout switch off. a. Guidance signal off lamp off. b. Vane I and IV meters indicate positive. c. Vane II and III meters indicate negative.	5. Slew displacement to minus 6500 meters and velocity to zero. Dial 8 and verify velocity arming lamp on and displacement arming lamp off.		5. All air jets operate.
6. Turn guidance cutout switch on. a. Guidance signal off lamp on. b. All vane meters indicate zero.		6. Zero computer.	
7. RC Phase lamp off.	7. Slew displacement to plus 3500 meters and velocity to zero. Dial 8 and verify both arming lamps on.		7. Turn all switches on flight simulator box to off in the following order. a. Q switch. b. X+127.5 switch. c. X+127 switch. d. X+1.5 switch.
8. Zero Dive Program. a. Dive program zero lamp on at pulse 180. b. Dive program counter zeros.	8. Slew displacement to plus 4500 meters and velocity to zero. Dial 8 and verify velocity arming lamp on and displacement arming lamp off.		
9. Turn rudder drive switch off.	9. Slew velocity to plus 55M/S. Dial 8 and verify both arming lamps off.		
10. Turn guidance cutout switch off. Guidance signal off lamp off.  END OF TEST END OF TABLE V	10. Zero computer. Dial 8 and verify both arming lamps on.  END OF TEST END OF TABLE V	10. Dial 8 and verify arming lamp on.  END OF TEST END OF TABLE V	END OF TEST END OF TABLE V

Table VI

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS	OVERALL CUTOFF TESTS  THIS IS A SERIES OF FOUR CUT-OFF TESTS AND MUST BE RUN IN SEQUENCE. TEST 1—COMBUSTION CHAMBER SENSING SWITCH. TEST 2—REMOTE FIRING PANEL. TEST 3—STEP SWITCH. TEST 4.—1.5 SECOND TIMER.	OVERALL CUTOFF TESTS	OVERALL CUTOFF TESTS	OVERALL CUTOFF TESTS	OVERALL CUTOFF TESTS	OVERALL CUTOFF TESTS
TEST 1	TEST 1  1. Insure that Operation Selector switch is in Test position (PP).	TEST 1	TEST 1	TEST 1  1. Prepare Sequence Recorder for this test by placing Minute speed switch to Minute position (down).	TEST 1  1. Insure P 4017 is installed in missile. Insure that P 4005 is disconnected before proceeding.	TEST 1
	2. Insure Combustion Pressure switch is in Combustion Pressure position (TP).  INSURE THAT ALL PERSONNEL ARE ALERTED FOR THEIR INDICATIONS IN STEP 3.	2. Pulse Step switch to Step 9 (SP). Zero lamp Off (SP).	2. Slew Velocity to Minus 100 M/S (RP).			

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 1	TEST 1	TEST 1	TEST 1	TEST 1	TEST 1	TEST 1
3. a. Power On Lamps Remain On (PG). b. All other lamps and indications Off.	3. Turn Simulate Takeoff switch to Simulate Takeoff position (TP). a. Detonators Safe lamp remains On (PP). b. Emergency Cutoff lamp blinks (PP). c. 60 cps power lamp on if winterization is Required (EP). d. Inverter and Networks Bus meters indicate voltage is available (EP). e. All other Lamps and indications Off.	3. a. Caged lamp Remains On (SC). b. All other lamps Off.	3. All lamps Off.	3. a. Pens 13 and 9 pick up and drop out (SR). b. Pens 12 and 16 drop out (SR). c. With the exception of the sequence recorder all lamps Off.	3. a. Emergency Cut-off lamp blinks (RF). b. Power On lamp Off (FB).	3. Command Bus meter deenergizes (PDS).
	4. Turn Operation Selector switch Off (PP).					
	5. Turn Simulate Takeoff switch Off (TP). Plugs OK lamp On (PP).			5. Pen No. 16 picks up (SR).		
6. Turn Inverter switch Off (IC).		6. Turn Control Computer switch Off (SP).			6. Remove P-4017 (missile). This plug will be retained by the Btry Executive officer until installation just prior to firing.	

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 2	TEST 2	TEST 2	TEST 2	TEST 2	TEST 2	TEST 2
	<p>1. Turn Operation Selector switch to Power On (PP).</p> <p>a. Drop Tank OK lamp On (PP).</p> <p>b. Low Pressure OK lamp On (PP).</p> <p>c. Guidance Failure Lamp blinks (EP).</p> <p>d. ALC and H<sub>2</sub>O<sub>2</sub> temperature meters deflect (PP).</p>	<p>1.</p> <p>a. Dive Program Zero lamp On (SP).</p> <p>b. Indicator H (Attitude Signals) lamp On (SC).</p> <p>c. Air pressure Supply Lamp On (SC).</p> <p>d. Warhead SAFE lamps On (CM).</p>	<p>1.</p> <p>a. Indicator H (Calibrate Repeat Power) lamp On (RP).</p> <p>b. Velocity Brake lamp On (RP).</p> <p>c. Displacement Brake lamp On (RP).</p> <p>d. 400 cps Power On lamp On (RP).</p> <p>e. Repeat lamp On (RC).</p>	<p>1.</p> <p>a. Indicator H (Calibrate Repeat Power) lamp On (LP).</p> <p>b. Velocity Detent meter reads in black zone (LP).</p> <p>c. Displacement Detent meter reads in black zone (LP).</p> <p>d. 400 cps Power On lamp On (LP).</p> <p>e. Calibration Time Lamp On (LC).</p> <p>f. Reverse lamp On (PD).</p> <p>g. Pen 12 picks up (SR).</p>	<p>1. Power On lamp On (FB).</p>	
	2. Cutoff Lamp On (PP).			2. Pen number 13 picks up (SR).	2. Depress and release Cutoff Command switch (RF). Cutoff Lamp On (RF).	
	<p>3. Turn Operation Selector switch Off (PP).</p> <p>a. Detonators Safe lamp remains On (PP).</p> <p>b. Plugs OK lamp remains On (PP).</p> <p>c. 60 cps Power lamp On if winterization is required.</p>	<p>3.</p> <p>a. Caged lamp remains On (SC).</p> <p>b. All other lamps Off.</p>	<p>3. All lamps Off.</p>	<p>3.</p> <p>a. Pens number 13 and 12 drop Out (SR).</p> <p>b. With the exception of the Sequence Recorder, all lamps Off.</p>	<p>3.</p> <p>a. Cutoff lamp Off (RF).</p> <p>b. Power On lamp Off (FB).</p>	

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 2	TEST 2  d. Inverter and Networks Bus meters indicate voltage is available (EP). e. All other lamps and indications Off.	TEST 2	TEST 2	TEST 2	TEST 2	TEST 2
TEST 3	TEST 3  1. Turn Operation Selector switch to Test (PP). a. Drop Tank OK lamp On (PP). b. Low Pressure OK lamp On (PP). c. Guidance Voltage Failure Lamp blinks (EP). d. AIC and H <sub>2</sub> O <sub>2</sub> temperature meters deflect (PP).	TEST 3  1. a. Dive Program Zero lamp On (SP). b. Indicator H (Attitude Signals) lamp On (SC). c. Air Pressure Supply lamp On (SC). d. Warhead Safe lamps On (CM).	TEST 3  1. a. Indicator H (Calibrate Repeat Power) lamp On (RP). b. Velocity Brake lamp On (RP). c. Displacement Brake lamp On (RP). d. 400 cps Power On lamp On (RP). e. Repeat lamp On (RC).	TEST 3  1. a. Indicator H (Calibrate Repeat Power) lamp On (LP). b. Velocity Detent meter reads in black zone (LP). c. Displacement Detent meter reads in black zone (LP). d. 400 cps Power On Lamp On (LP). e. Calibration Time lamp On (LC). f. Reverse Lamp On (PD). g. Pen number 12 picks up (SP).	TEST 3  1. Power On lamps On (FB).	TEST 3
	2. INSURE THAT ALL PERSONNEL ARE ALERTED FOR THEIR INDICATIONS IN STEP 3.	2. Pulse step switch to step 11 (SP).				

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 3	TEST 3	TEST 3	TEST 3	TEST 3	TEST 3	TEST 3
	3. Turn Simulate Takeoff switch to Simulate Takeoff (TP). a. Emergency cutoff lamp blinks (PP). b. Detonators safe lamps remain On (PP). c. 60 cps Power lamp On if winterization is required (EP). d. Inverter and networks bus meters indicate voltage is available (EP). e. All other lamps and indications Off.	3. a. Caged lamp remains On (SC). b. All other lamps Off.	3. All lamps Off.	3. a. Pens 13 and 9 pick up and drop Out (SR). b. Pens 12 and 16 drop out (SR). c. With the exception of the sequence recorder all lamps Off.		3. a. Emergency Cut-off lamp blinks (RF). b. Power On lamp Off (FB).
	4. Turn Operation Selector switch Off (PP).					
	5. Turn Simulate Takeoff switch Off (TP). Plugs OK lamp On (PP).			5. Pen No. 16 picks up (SR).		
	6. Turn Operation Selector switch to Test (PP). a. Drop Tank OK lamp On (PP). b. Low Pressure OK lamp On (PP). c. Guidance Voltage Failure lamp blinks (EP). d. ALC and H <sub>2</sub> O <sub>2</sub> lamps On (CM).	6. a. Dive Program Zero lamp On (SP). b. Indicator H (Attitude Signals) lamp On. c. Air Pressure Supply lamp On (SC). d. Warhead Safe lamps On (CM).	6. a. Indicator H (Calibrate Repeat Power) lamp On (RP). b. Velocity Brake lamp On (RP). c. Displacement Brake lamp On (RP). d. 400 cps Power On lamp On (CM).	6. a. Indicator H (Calibrate Repeat Power) lamp On (LP). b. Velocity Detent meter reads in black zone (LP). c. Displacement Detent meter reads in black zone (LP). d. 400 cps Power	6. Power On lamp On (FB).	

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 3	TEST 3 temperature meters deflect (PP).	TEST 3	TEST 3 e. Repeat lamp On (RC).	TEST 3 On lamp On (LP). e. Calibration Time lamp On (LC). f. Reverse lamp On (PD). g. Pen No. 12 picks up (SP).	TEST 3	TEST 3
			7. Depress 400 cps Power Off Pushbutton (RP). a. 400 cps Power On lamp Off (RP). b. 400 cps Power Off lamp On (RP).	7. Depress 400 cps Power Off Pushbutton (LP). a. 400 cps Power On lamp Off (LP). b. 400 cps Power Off lamp On (LP).		
8. Turn Inverter switch On.  a. Inverter phase lamps On (IC).  b. Voltmeter indicates $115 \pm 2$ volts in all positions.	8. Command Bus meter indicates voltage is present (EP).	8. Zero Step switch (SP).  a. Step switch Zero lamp On (SP).  b. Step switch Counter reads Zero (SP).	8. Zero Range Computer (RP).	8. Insure Lateral Computer is Zeroed (LP).		8. Command Bus meter indicates 60 volts (PDS).
TEST 4	TEST 4	TEST 4 1. Turn Control Computer switch On (SP).	TEST 4	TEST 4 1. Turn Program Device Power switch On (PD). Zero lamp On (PD).	TEST 4 1. Connect Main Stage Stick.  a. Connect P3219 (W51432) to J3219 (RB). b. Connect Main Stage Stick to P4815.	TEST 4

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 4	TEST 4  2. Depress Guidance Voltage Failure Reset button (EP). Guidance Voltage Failure lamp Off (EP).	TEST 4  2. Turn rudder drive switch On (SP). Vane position meters read zero degrees (SP).	TEST 4	TEST 4	TEST 4  2. Vane position meters indicate zero (RF).	TEST 4
	3. Turn Operation Selector switch to Simulated Flight (PP). a. Links OK lamp On (PP). b. Voltage OK lamp On (PP). c. Guidance OK lamp On (PP). d. Remote Ready lamp On (PP).	3. a. Program Zero lamp On (SC). b. Air pressure platform lamp On (SC).		3. Pens 10, 15, and 17 pickup (SR).	3. a. Power OK lamp On (RF). b. Preparation complete lamp On (RF).	
4. Disregard changing indications in this step.	4. Depress Test Fire switch (TP). Emergency Cut-off lamp blinks approximately 1.5 seconds after Igniter ALC Flow lamp comes on during automatic firing sequence (PP).	4. Disregard changing indications in this step.	4. Disregard changing indications in this step.	4. Disregard changing indications in this step.	4. Emergency cutoff lamp blinks (RF).	
	5. Turn Operation Selector switch to Off then back to test as quickly as possible (PP).					

Table VI—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—Electrical and pneumatic
OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued	OVERALL CUTOFF TESTS—Continued
TEST 4	TEST 4	TEST 4	TEST 4	TEST 4 6. Return minute speed switch to the hour position and remove used chart paper from sequence recorder.	TEST 4	TEST 4
				7. Verify that the Elapsed Time between Pick-up of Pen 5 and 13 is between 1.4 and 1.65 seconds.	7. Disconnect Main-stage stick. a. Disconnect (P3219) (W51432) from relay box. b. Disconnect mainstage stick from P4815.	
END OF TEST	END OF TEST	END OF TEST	END OF TEST	8. Install chart paper and leave Sequence Recorder in its present condition if tests are to be continued. To turn Recorder off, follow reverse procedure for turning on.	END OF TEST	END OF TEST
END OF TABLE VI	END OF TABLE VI	END OF TABLE VI	END OF TABLE VI	END OF TABLE VI	END OF TABLE VI	END OF TABLE VI

Table VII

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT	HORIZONTAL SIMULATED FLIGHT
BEFORE ATTEMPTING TO RUN THIS TEST, OPERATING PERSONNEL SHOULD REVIEW THESE PROCEDURES UNTIL THEY ARE FAMILIAR WITH THE OPERATIONS TO BE PERFORMED AND THE INDICATIONS TO EXPECT.						
1. Verify normal indications. a. Power lamp On (PG).  b. Inverter phase lamps On (IC).  e. Inverter voltmeter indicates $115 \pm 2$ volts in all positions (IC).	1. Verify normal indications. a. Operation selector switch in test (PP).  b. Plugs OK lamp On (PP).  c. Low pressure OK lamp On (PP).  d. Detonators Safe lamp On (PP). e. Drop Tank OK lamp On (PP). f. ALC and $H_2O_2$ temperature meters deflect (PP). g. Guidance voltage Failure lamp blinks (EP). h. Command BUS meter indicates voltage is present (EP). i. Inverter and Networks BUS meters indicate voltage is present (EP).	1. Verify normal indication. a. Indicator H (Attitude Signals) lamp On (SC).  b. Caged lamp On (SC).  c. Air Pressure Supply lamp On (SC).  d. Step Switch Zero lamp On (SP). e. Dive Program Zero lamp On (SP). f. Control Computer switch On (SP). g. Rudder Drive switch On (SP).  h. Vane Position meter indicate Zero degree (SP).  i. Warhead Safe lamps On (CM).	1. Verify normal indications. a. Indicator H (Calibrate Repeat Power) lamp On (RP).  b. Velocity Brake lamp On (RP).  c. Displacement Brake lamp On (RP).  d. 400 cps Power On lamp On (RP). e. Repeat lamp On (RC).  h. Vane Position meter indicate Zero degree (SP).	1. Verify normal indications. a. Indicator H (Calibrate Repeat Power) lamp on (LP).  b. Velocity Detent meter reads in Black Zone (LP).  c. Displacement Detent Meter reads in Black Zone (LP).  d. 400 cps Power On lamp ON (LP). e. Calibration Time lamp On (LC). f. Reverse lamp On (PD).  g. Zero lamp On (PD).	1.  INSURE P 4017 IS REMOVED (MISSILE).  INSURE MISSILE IS PRESSURIZED TO 2,000 PSI (VB).	

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
	2. Depress Guidance Voltage Failure reset button (EP).	2. Turn Guidance Cutout switch On (SP).		2. Prepare Sequence Recorder for this test by placing the Minute speed switch on the Minute position (down).	2. Insure that all switches are Off (FB).	
	Guidance voltage Failure lamp Off (EP).	Guidance Signal Off lamp On (SP).				
	3. Turn Operation Selector switch to simulated Flight (PP). <ul style="list-style-type: none"> <li>a. Links OK lamp On (PP).</li> <li>b. Guidance OK lamp On (PP).</li> <li>c. Remote Ready lamp On (PP).</li> <li>d. Voltages OK lamp On (EP).</li> </ul>	3. <ul style="list-style-type: none"> <li>a. Program zero lamp On (SC).</li> <li>b. Air pressure Platform lamp On (SC).</li> </ul>		3. Pens number 10, 15, and 17 pick up (SR).	3. <ul style="list-style-type: none"> <li>a. Power OK lamp On (RF).</li> <li>b. Preparation complete lamp On (RF).</li> </ul>	
	4. Fire Command lamp On then Off (TP).				4. Turn Fire switch On then Off (RF).	
	5. Depress and Release Test Fire button (TP). <ul style="list-style-type: none"> <li>a. ALC Tank Pressure lamp On (PP).</li> <li>b. LOX Tank Pressure lamp On (PP).</li> <li>c. Power Transfer lamp On (PP).</li> <li>d. Drop Tank OK lamp Off (PP).</li> <li>e. Drop tank Off lamp On (TP).</li> </ul>	5. Air heater lamp cycles (SC).		5. Sequence Recorder chart moves rapidly (SR).	5. <ul style="list-style-type: none"> <li>a. Alcohol Pressurized lamp On (RF).</li> <li>b. Power Transfer lamp On (RF).</li> <li>c. All lamps Off (HB).</li> </ul>	

Table VII—Continued

Test station							Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic		
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
	THE FOLLOWING INDICATIONS OCCUR AFTER A 4 SECOND DELAY: a. Main LOX Valve lamp On (PP). b. Igniter ALC Flow lamp blinks (PP). c. Mainstage and Main ALC valve lamp On (PP).					THE FOLLOWING INDICATIONS OCCUR AFTER A 4 SECOND DELAY: a. Ignition Lamp blinks (RF).  b. Mainstay lamp On (RF).		
START PHASE I	START PHASE I	START PHASE I	START PHASE I	START PHASE I	START PHASE I	START PHASE I	START PHASE I	START PHASE I
THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: Inverter Phase lamps Off (IC).	THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: a. Power Transfer lamp Off (PP). b. Plugs OK lamp Off (PP). c. Remote Ready lamp Off (PP). d. LOX Tank Pressure lamp Off (PP). e. ALC Tank Pressure lamp Off (PP). f. Links OK lamp Off (PP). g. Voltages OK lamp Off (PP). h. Guidance OK lamp Off (PP). i. ALC and H <sub>2</sub> O <sub>2</sub> Temperature meters deflect (PP).	THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: a. Step switch counter operates (SP). b. Step switch Zero lamp Off (SP) c. Dive Program Zero lamp Off (SP). d. Indicator H lamp Off (SC). e. Air Pressure Supply lamp Off (SC). f. Program Zero lamp Off (SC). g. Air pressure platform lamp Off (SC). h. Warhead safe lamps Off (CM).	THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: a. 400 cycle Power On lamp Off (RP). b. Velocity Brake lamp Off (RP). c. Displacement Brake lamp Off (RP). d. Indicator H (Calibrate Repeat Power) lamp Off (RP). e. Repeat lamp Off (RC).	THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: a. 400 cycle Power On lamp Off (LP). b. Indicator H (Calibrate Repeat Power) lamp Off (LP). c. Displacement Detent meter reads Off (LP). d. Velocity Detent meter reads Off (LP). e. Calibration Time lamp Off (LP). f. Reverse lamp Off (PD). g. Zero lamp Off (PD). h. Program Counters operate (PD). i. Sequence Recorder returns to slow speed (SR).	THE FOLLOWING INDICATIONS OCCUR AT LIFT-OFF: a. Power Transfer lamp Off (RF). b. Preparation Complete lamp Off (RF). c. Alcohol Pressurized lamp Off (RF). d. Power OK lamp Off (RF).			

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
6. Turn inverter power switch Off (IC).		6. Operate Simulate Command switches to Right and Left to simulate Yaw, Roll, and Pitch once during each flight phase (SC). Vane Position meters respond as indicated on Stabilizer Control Panel for Simulated Commands (SP).				
	7. a. Cutoff lamp On (PP). b. Main LOX Valve lamp Off (PP). c. Mainstage and Main ALC Valve lamp Off (PP).	7. Announce to all personnel involved in test when step switch counter reaches 9 (SP). Air Pressure Supply lamp On (SC).			7. a. Mainstage lamp Off (RF). b. Emergency Cutoff lamp On (RF). c. Power On lamps On (HB). d. Heater lamps On for each heater switch turned On (HB).	
	START PHASE II	START PHASE II	START PHASE II	START PHASE II	START PHASE II	START PHASE II
		8. Operate Simulate Command switches (SC). Vane Position meters respond as indicated on Stabilizer Control Panel for Simulated Commands (SP).				

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
	START PHASE III	START PHASE III	START PHASE III	START PHASE III	START PHASE III	START PHASE III
	9. Screws lamps On (TP).	9. Announce to all personnel involved in test when Step switch counter reaches 14 (SP).			9. Interrupter Lamp On (SB).	
		10. Operate Simulate Command switches (SC). Vane Position meters respond as indicated on Stabilizer Control Panel for Simulated Commands (SP).			10. Jet nozzles operate on missile.	
		11. Announce to all personnel involved in test when step switch counter reaches 20 (SP).			11. Be prepared at the announcement of step 20 of step switch to turn Q switch On (FB).	
START PHASE IV	START PHASE IV	START PHASE IV 12. a. Dive Program Counterpulses after a short delay (SP). b. Step Switch Counter continues to operate (SP). c. RC Phase Check lamp On approximately step 40 of Dive Program Counter (SP).	START PHASE IV	START PHASE IV	START PHASE IV 12. Turn Q switch On (FB).	START PHASE IV

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
		13. Operate Simulate Command switches (SC). Vane Position meters respond as indicated on Stabilizer Control Panel for Simulated Commands (SP).				
		14. Announce to all personnel when Dive Program Counter stops.				
		15. Turn Rudder Drive Switch Off (SP).		15. Turn Program Device Off (PD).	15. Turn Q Switch Off (FB).	
		16. Turn Control Computer switch Off (SP).		16. Move Minute speed switch to the Hour position (up) and remove used chart paper from Recorder (SR).		
17. AC voltmeter returns to Zero.	17. Turn Operations Selector switch Off. a. Plugs OK lamp On (PP). b. Detonator Safe lamp On (PP). c. Inverter and Networks BUS meters indicate that voltage is present (EP). d. All other lamps and indications Off.	17. Turn Guidance Cutout switch Off (SP). a. Caged lamp On (SC). b. All other lamps Off.	17. All lamps off.	17. All lamps Off (except Sequence Recorder).	17. a. Interrupter lamp Off (SB). b. Power on lamp Off (FB).	17. Command BUS meter deenergizes (PDS).

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
	18. Turn Operation Selector switch to Test (PP). a. Low Pressure OK lamp On (PP). b. Drop Tank OK lamp On (PP). c. Guidance voltage Failure lamp blinks (EP). d. ALC and H <sub>2</sub> O <sub>2</sub> Temperature meters deflect (PP).	18. a. Indicator H (attitude signals) lamp On (SC). b. Air Pressure Supply lamp On (SC). c. Warhead Safe lamps On (CM).	18. a. Indicator H (Calibrate Repeat Power) lamp On (RP). b. Velocity Brake lamp On (RP). c. Displacement Brake lamp On (RP). d. 400 cps Power On lamp On (RP). e. Repeat lamp On (RC).	18. a. Indicator H (Calibrate Repeat Power) lamp On (LP). b. Velocity Detent meter reads in Black zone (LP). c. Displacement Detent meter reads in Black Zone (LP). DISPLACEMENT DETENT METER MAY READ SLIGHTLY OFF BLACK ZONE. d. 400 cps Power On lamp On (LP). e. Calibration Time lamp On (LC). f. Reverse lamp On (PD).	18. Power On lamp On (FB).	
		19. Depress and hold Step Switch Home button until counter resets to Zero (SP). Step Switch Zero lamp On (SP).	19. Depress 400 cps Power Off pushbutton (RP). a. Power Off lamp On (RP). b. Power On lamp Off (RP).	19. Depress 400 cps Power Off pushbutton (LP). a. Power Off lamp On (LP). b. Power On lamp Off (LP).	19. Interrupter lamp Off (SB).	
20. Turn Inverter Power switch On (IC). a. Inverter Phase lamps On (IC). b. AC Voltmeter indicates 115+2 volts in all positions (IC).	20. Command BUS meter indicates that voltage is present (EP).	20. Operate Dive Program Zero pushbutton until Counter resets to Zero (SP). Dive Program Zero lamp On (SP).	20. Insure Range Computer is Zero.	20. Insure Lateral computer is Zero.		20. Command BUS meter indicates 60 volts (PDS).

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
	21. Obtain chart paper from sequence recorder and examine indications. Pens should have picked up in the following order as the Test Fire Command was initiated. Pens 20, 1, 2, 3, 4, 9, 11, 5, 6, 8, 7, and 13.			21. Turn Program Device On (PD). a. Program device starts counting and continues counting for approximately 6 minutes (PD). b. Zero lamp On (PD).		
				22. Depress Counter reset button (PD). Counters return to zero (PD).		
				23. Turn Power Switch Off (PD). Zero lamp Off.		
24. Turn Inverter Power Switch Off (IC). a. Inverter Phase lamps Off (IC). b. AC Voltmeter returns to Zero (IC).	24. Command BUS meter deenergizes (EP).			24. Install chart paper and leave sequence recorder in its present condition if tests are to be continued. To turn recorder Off, follow reverse procedure for turning On as indicated in table II.		24. Command BUS meter deenergizes (PDS).

Table VII—Continued

Test station					Firing area	
Communication console	Propulsion and electrical console	Stabilizer and steering console	Range console	Lateral and program console	Firing section	Servicing section—electrical and pneumatic
HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued	HORIZONTAL SIMULATED FLIGHT—Continued
*	25. Turn Operation Selector switch Off (PP). a. Plugs OK lamp On (PP). b. Detonators Safe lamp On (PP). c. All other lamps Off.	25. a. Caged lamp On (SC). b. All other lamps Off.	25. All lamps Off.	25. All lamps Off (Except Sequence Recorder).	25. Power On lamp Off (FB).	
26. Turn all switches Off or to Normal position.	26. Turn all switches Off or to Normal position.	26. Turn all switches Off or to Normal position.	26. Turn all switches Off or to Normal position.	26. Turn all switches Off or to Normal position.	END OF TABLE VII	END OF TABLE VII
END OF TABLE VII	END OF TABLE VII	END OF TABLE VII	END OF TABLE VII	END OF TABLE VII	END OF TABLE VII	END OF TABLE VII

Table VIII

Firing area—Firing section

THE POWER TRANSFER TEST (TABLE IX) MAY BE PERFORMED DURING THE VERTICAL CONTROL SYSTEM TEST (STEP 34, TABLE XIV). IN THIS EVENT, START TABLE X WHILE PERFORMING THIS TABLE.

## PREPARATION FOR POWER TRANSFER TEST

1. Insure Inverter Bus, and Network Bus output switches are Off (PDS).
2. Zero air vanes and lock in place with Arresting pins (Missile).
3. Disconnect cable harness W51437 from explosive screws and drop tank assembly.
4. Disconnect W-3805 from Test Station.
5. Connect P-4841-1, through P-4841-6 to J-4841-1 through J-4841-6 (Missile Explosive Bolts).
6. Connect Knife Connector S-4843-1 to S-4843-2 (located inside the Skirt section, between Air Vanes III and IV where Body unit joins Thrust unit). NOTIFY THE TEST STATION WHEN PREPARATIONS FOR POWER TRANSFER TEST ARE COMPLETED.

END OF TABLE VIII